

SAMSUNG

Video Cassette Recorder

Owner's Manual

VHS

VR8160
VR5160

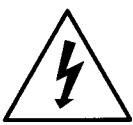


Energy Star

Safety Instructions

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.

CAUTION: TO REDUCE THE
RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR
BACK). NO USER SERVICEABLE
PARTS INSIDE. REFER
SERVICING TO QUALIFIED
SERVICE PERSONNEL.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Caution: FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may be copyrighted and any unauthorized recording in whole or in part may be a violation of these rights.

**To prevent damage which may result in fire or electric shock hazard,
do not expose this appliance to rain or moisture.**

**As an ENERGY STAR Partner, Samsung Electronics America, Inc.
has determined that this product or product model meets the ENERGY
STAR guidelines for energy efficiency**

Important Safety Instructions

- 1. Read Instructions**-All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions**-The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings**-All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions**-All operating and using instructions should be followed.
- 5. Cleaning**-Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments**-Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture**-Do not use this product near water-for example near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8. Accessories**-Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



Safety Instructions

9. **Cart Usage**-A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. **Ventilation**-Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources**-This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization**-This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection**-Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Outdoor Antenna Grounding**-If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
15. **Lightning**-For added protection for this product during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. **Power Lines**-An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading**-Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry**-Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
19. **Servicing**-Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. **Damage Requiring Service**-Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a When the power-supply cord or plug is damaged.
 - b If liquid has been spilled or objects have fallen into the product.
 - c If the product has been exposed to rain or water.
 - d If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e If the product has been dropped or damaged in any way.
 - f When the product exhibits a distinct change in performance-this indicates a need for service.
21. **Replacement Parts**-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. **Safety check**-Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. **Heat**-The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

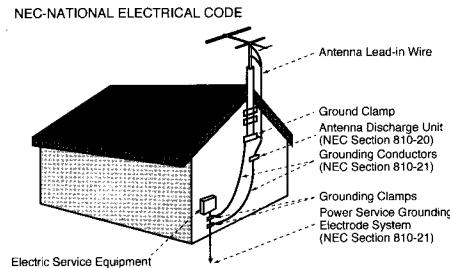


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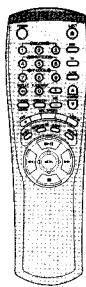
Your New VCR

Features

- Hi-Fi Stereo sound (VR8160 only)
- Plug and Play
- 24 Hours x 7 Days Timer Back-up
- Record File; Recording information storage and display
- Auto Power off
- 400x Rewind; Rewinds a T-120 in about 1 minute
- One Touch Recording (OTR) up to four hours
- Tri-lingual on-screen programming
(English/Spanish/French)
- Two Button Shuttle for various playback speeds
- Digital Auto Tracking
- Special effects playback, including slow motion
- Built-in HQ (High Quality) video circuitry
- One-month eight event timer programming
- Key Lock-disables all of the key functions
- Auto Clock Set
- Auto Line Input Detect
- Universal Remote Control for your VCR and most TVs.

Accessories

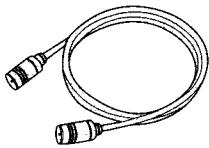
Check to make sure the following items have been included with your VCR.



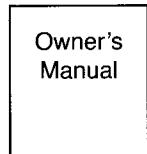
Remote Control



Batteries for remote(2AA)



RF-Cable



Owner's Manual

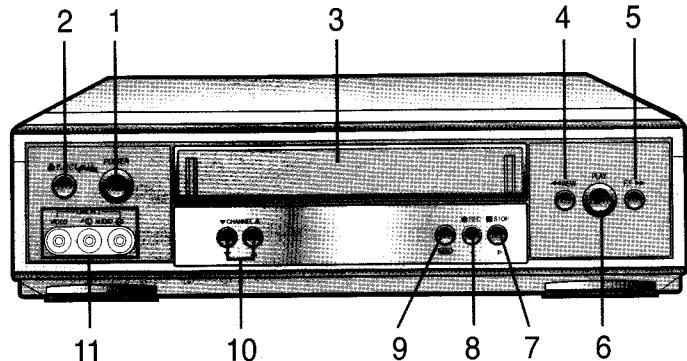


Registration Card

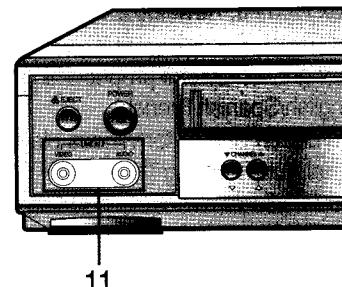
Your New VCR

Front Panel and Display

VR8160



VR5160



1 POWER

Press to turn the VCR on and off.

2 EJECT

Press to eject a tape or clear a timer program on the menu screen.

3 CASSETTE COMPARTMENT

Insert a video cassette.

4 REW (REWIND)

Press to rewind in stop mode or reverse search in play mode.

5 F.F (FAST FORWARD)

Press to fast forward in stop mode or forward search in play mode.

6 PLAY

Press to play tape.

7 STOP

Press to stop tape.

8 RECORD

Press to record or press to move a cursor to the left on the menu screen.

9 MENU

Press to display or clear the menu screen.

10 CHANNEL ▼▲

Press to change channels or press to move a cursor up or down on the menu screen.

11 LINE IN

Input signal from another VCR or camcorder.

(Model VR5160 has only one AUDIO LINE IN jack.)

TAPE Indicator

Lights when a tape is inserted.

VCR Indicator

Picture source is VCR.



TIMER Indicator

Timer Recording is set.

Hi-Fi Indicator

Lights when the VCR receives a Hi-Fi broadcast (VR8160).

Number Display

Displays current channel number, clock time, time remaining or tape counter.

Your New VCR

Controlling a Compatible TV

You can program your VCR remote to control some functions of connected TV:

- 1 Turn the TV on and point the VCR remote at the TV.
- 2 Press and hold down the TV button on the remote control. At the same time, press the appropriate number buttons according to the chart below. When the TV turns off, programming is completed. The remote now controls the TV functions shown in the chart below.

This remote will not operate all TV's made by the manufacturers listed below. If your TV does not respond to any of the button combinations, the TV probably cannot be controlled by this remote control.

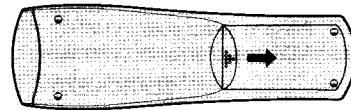
Brand	Samsung old	Sharp new	Sony	Magnavox	Sanyo	Goldstar new	RCA/GE	Goldstar old	Toshiba	Hitachi	JVC	Panasonic 1
NO	01	02	03	04	05	06	07	08	09	10	11	12

Brand	Mitsubishi	Samsung new	Samsung Latin	Sharp	Zenith	Goldstar Latin	Daewoo	Sanyo	Emerson	Sharp	Samsung Latin	Panasonic 2
NO	13	14	15	16	17	18	19	20	21	22	23	24

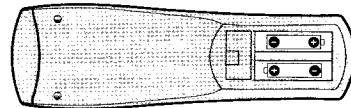
Remote Control batteries

If you won't use the remote for a long time, remove the batteries and store them in a cool, dry place. Batteries should last about a year. When replacing batteries, use all new batteries, and never mix alkaline and manganese batteries.

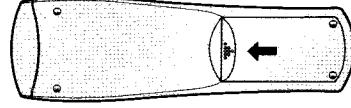
- 1 Remove the battery compartment lid by lifting the cover.



- 2 Insert two AA batteries as shown. Match + and - ends of the batteries as indicated inside compartment.



- 3 Replace the compartment cover.

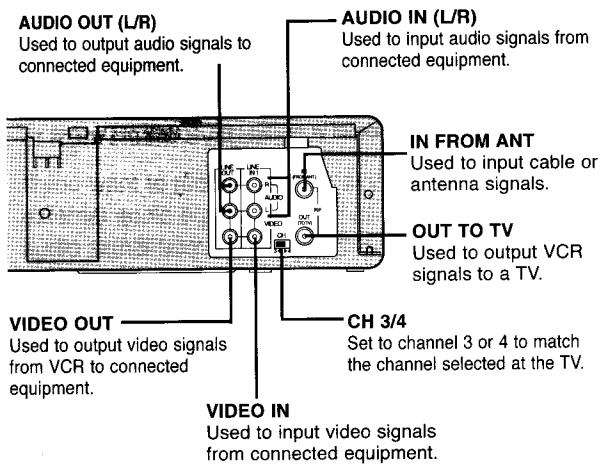


VCR Setup

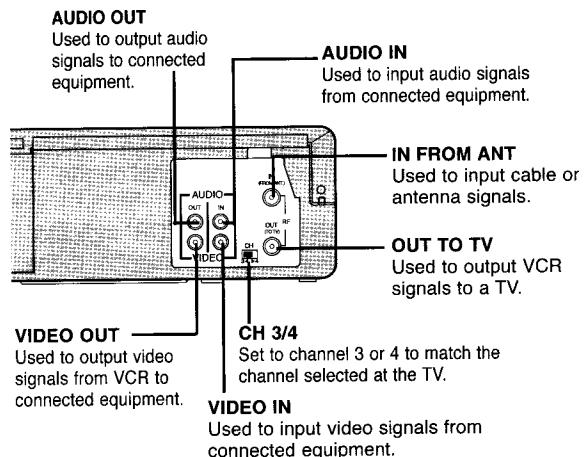
Rear Panel

Use the jacks on the rear panel to connect the VCR to other components and signals, including: VCRs, TVs, stereo equipment, digital video components, antenna and cable signals.

VR8160



VR5160



Connections

Antenna Connection

If your outside antenna cable is a 300 ohm flat feeder, use an adapter to connect the antenna to the VCR input terminal. You can purchase an adapter at an electronics store. If your antenna already has a round lead, simply connect it to the terminal on the rear panel of the VCR.

Once your antenna is connected to the VCR, connect a cable from the VCR to your TV from the "Out to TV" terminal on the rear panel of the VCR.

Cable Connections

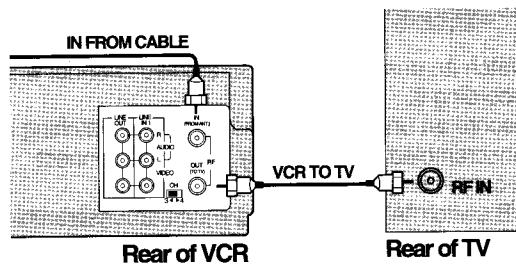
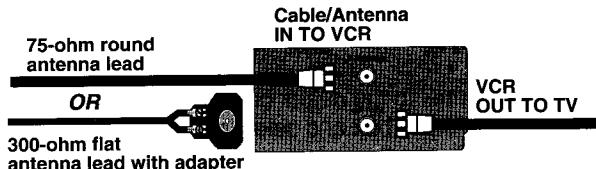
Basic Cable TV Connection

This set-up will enable you to:

- Record an unscrambled channel.
- Watch an unscrambled channel while recording it.
- Record an unscrambled channel while watching another (only when you connect a cable-compatible TV).

You will need to:

- Select TV channel 3 or 4 to receive video signals.
- To record a channel while watching another, press TV/VCR on the remote control to turn off the "VCR" indicator in the VCR display and select a desired channel on the TV.



VCR Setup

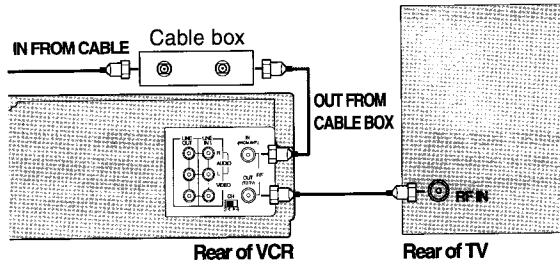
Premium Cable TV Connection 1

This set-up will enable you to:

- Watch an unscrambled or scrambled channel while recording it.
- Record any channels through the cable box.

You will need to:

- Set TV to channel 3 or 4 to receive video signals.
- Set VCR channel to the output channel of the cable box, and select a desired cable channel on the cable box.
- While the VCR is turned off or the "VCR" indicator is not lit in the VCR display, set TV channel to the output channel of the cable box.



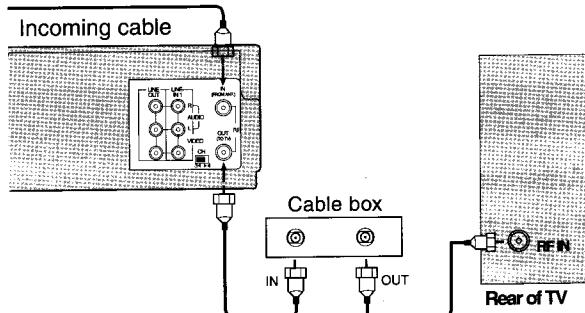
Premium Cable TV Connection 2

This set-up will enable you to:

- Record an unscrambled channel.
- Watch an unscrambled channel while recording it.
- Record an unscrambled channel while watching another (scrambled or unscrambled).

You will need to:

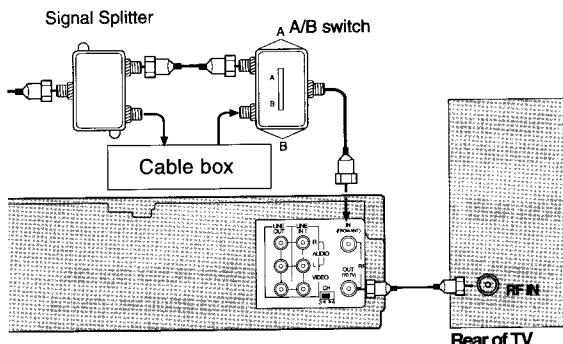
- Set TV channel to the output channel of the cable box.
- Turn on the cable box and select cable channel 3 or 4 according to the output channel of the VCR.
- To record a channel while watching another, press TV/VCR on the remote control to turn off the "VCR" indicator in the VCR display and select a desired cable channel on the cable box.



Premium Cable TV Connection 3

This set-up will enable you to:

- Watch an unscrambled or scrambled channel while recording it.
- Record an unscrambled channel while watching another unscrambled channel (only when you connect a cable-compatible TV).
- A/B switch "A" : Record and watch an unscrambled channel which bypasses the cable box.
- A/B switch "B" : Record and watch a scrambled or unscrambled channel coming through the cable box.

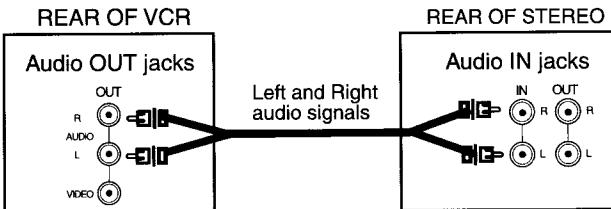


VCR Setup

External Stereo Connections (VR8160 only)

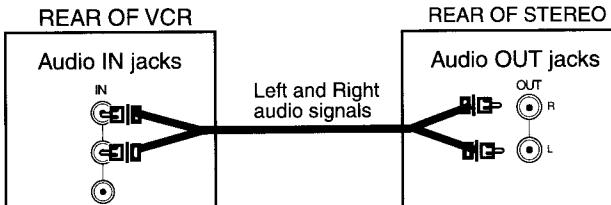
Out to Audio System

Connecting your stereo VCR to an external amplifier and speakers can improve the sound quality. The sound from the VCR can be heard through the stereo.



In from Audio System

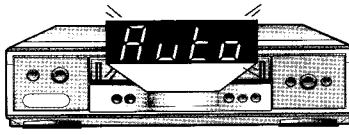
If you want to record a stereo signal from external audio equipment, you can send the audio signal from the stereo to the VCR.



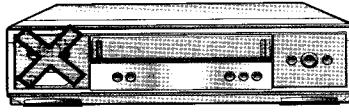
Plug and Play

The VCR's clock and tuner channels are set automatically when the VCR is plugged into the AC outlet. If you use a cable box or DSS® box, plug & play will not function; see pages 9-11.

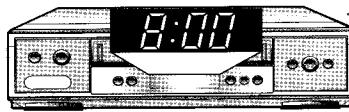
1 Plug the VCR into the AC outlet.



2 Don't press any buttons on the VCR or remote during auto setup.



3 "AUTO" blinks while the VCR automatically sets the clock using information provided by the local PBS channel. While "AUTO" is blinking, channel memory is also set automatically. See page 9 for more information.



4 When Auto Setting has been completed, the VCR displays the current time. You can now use your VCR.

NOTES:

- If the time displayed in step 4 is incorrect, perform the Manual Clock Set procedure (refer to page 10).
- There are some PBS channels that do not transmit clock setting data. If your antenna cable is properly connected and " - : - " is displayed, perform the Manual Clock Set procedure (refer to page 10).

VCR Setup

Using the Menus with the Remote Control

Your VCR has on-screen menus that allow you to access and control the VCR's programmable features. You will use the buttons on the remote control or on the front panel to work with the on-screen programming. Each button works not only PLAY, STOP, F.F, REW but also as a shift cursor in the on screen menus.



: PLAY/Pause or ▲ cursor



: STOP or ▼ cursor

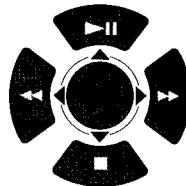


: REW or ◀ cursor

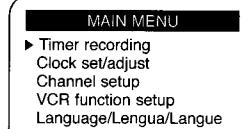


: MENU ON or OFF

: F.F or ▶ cursor



1 Press the **MENU** button on your remote control. The Main Menu will appear on screen.



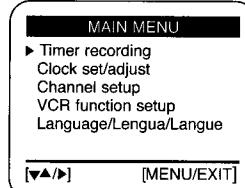
2 Select the item you want to adjust using the ▼ button followed by the ▶ button on your remote control.

If you want to exit any on-screen menu, simply press the **SEARCH/EXIT** button on the remote control.

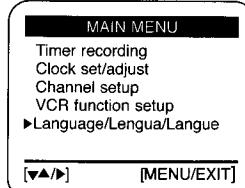
If the main menu does not appear, make sure the TV is tuned to the same channel as the CH3/4 switch on the rear panel of the VCR, and check for the VCR indicator on the front display. If the VCR indicator does not light, press the **TV/VCR** button on the remote control to turn it on.

Selecting the On-Screen Language

1 To select the language for the on-screen menu display, press the **MENU** button on the remote control.



2 Press ▼ on the remote control to select "Language."



3 Press ▶ to select the language you want for the on screen menus (English, Spanish, French).



VCR Setup

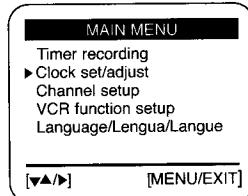
Setting the Clock

The VCR has an internal clock which is used to turn the VCR on and off for timer recording.

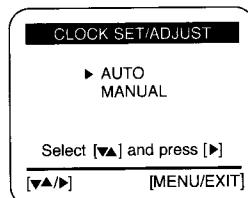
Automatically Setting the Clock

When the AUTO CLOCK SET feature is selected, the VCR automatically updates its internal clock using Coordinated Universal Time information transmitted by some broadcast stations. If the VCR is connected to a cable box or DSS® box, cable box or DSS® box setup must be completed first (see page 6) and it's activated when the cable box is tuned to the PBS channel.

1 Press **MENU** on the remote control. Press **▼** and **►** to select "CLOCK SET/ADJUST."



2 Press **►** to select **AUTO**.



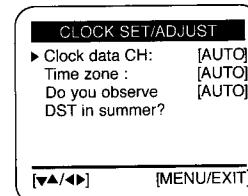
3 **Clock Data CH** : If you select **AUTO**, the VCR will automatically tune to a channel providing time data. This may take the VCR up to 20 minutes. You can also tune the VCR manually to a channel that you know carries time information (PBS channel) with the **◀▶** buttons.

Time ZONE : If you select **AUTO** for your time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds. If the time is not correct, select another time zone.

Daylight Savings Time : If you select **AUTO**, the VCR sets the clock using the DST information broadcast in the signal (channel). If you select **YES**, Daylight Savings Time is observed:

Spring : The clock changes forward one hour on the first Sunday in April.
Autumn : The clock changes back one hour on the last Sunday in October.

4 Press **MENU** when you finish setting the clock.
If you selected **AUTO CLOCK**, the VCR clock will be set automatically when the VCR is turned OFF.

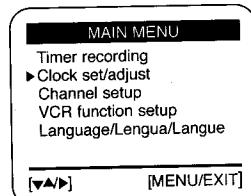


If **AUTO CLOCK SET** is unsuccessful, check local station listings for channels with Coordinated Universal Time. Tune the VCR to one of these channels, and turn the VCR off. If the time does not set within 20 minutes, set the time and date manually.

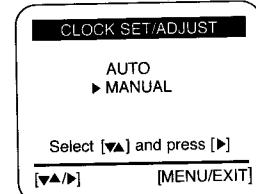
VCR Setup

Manually Setting the Clock

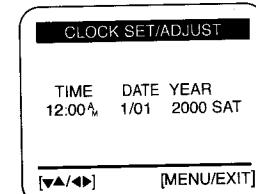
1 Press **MENU** on the remote control. Press **▼** and **►** to select "CLOCK SET/ADJUST."



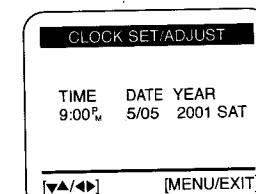
2 Use **▼** and **►** on the remote control to select MANUAL.



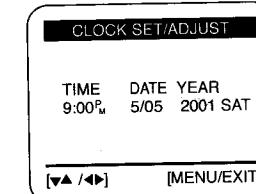
3 The first clock setting display appears.
To enter the current time, press **▼** or **▲** and press **►** to move to the the next setting.



4 To enter the current month and date, press **▼** or **▲** and press **►** to move to the next setting.



5 To enter the current year, press **▲** or **▼**.
The day of the week is automatically added after you set the year.



6 Press the **MENU** button to start the clock.
Press the **MENU** button again when you finish setting the clock.

VCR Setup

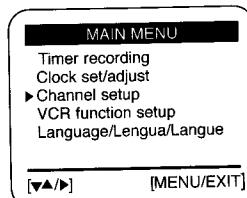
Setting Up

Once the VCR memorizes all the available channels, you can use the CH/TRK ▼ ▲ buttons to select channels.

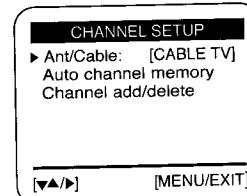
Setting the Source

Before the VCR can memorize available channels, you must set the signal source for your VCR.

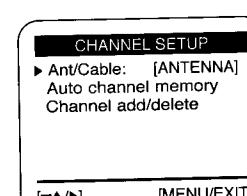
1 With the VCR on, press the **MENU** button.
Press ▼ and ▶ to select "CHANNEL SETUP."



2 If you have a cable system hooked up to your VCR, leave CABLE TV displayed in the Ant/Cable screen.

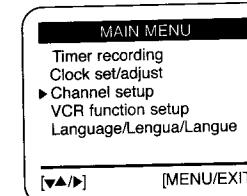


3 If you have an antenna hooked up to your VCR, press ▶ until ANTENNA appears. Press the **MENU** button when you have selected the correct signal source.

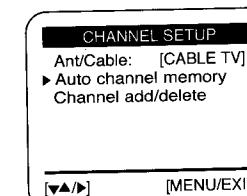


Memorizing the Channels

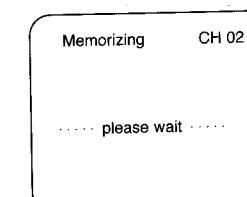
1 Press the **MENU** button. Press ▼ and ▶ to select "CHANNEL SETUP."



2 Press ▼ and ▶ to start Auto channel memory function.



3 Your VCR will begin memorizing all available channels. To interrupt, press the **MENU** button on the remote control. When the channel number on screen stops changing, the VCR has finished.

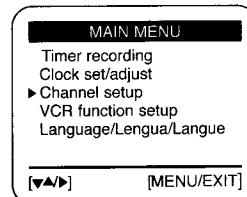


VCR Setup

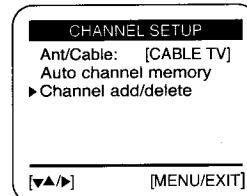
Adding or Deleting Memorized Channels

You can add or delete channels that have been memorized with the Automatic Channel Memory function. The Auto Channel Memory function must be performed before Channel Add/Delete can be used.

1 Press the **MENU** button. Press **▼** and **►** button to select "CHANNEL SETUP."



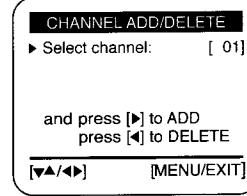
2 Press **▼** and **►** button to select "Channel Add/Delete."



3 Press two number buttons or press **CH/TRK ▼▲** for the channel you want to add or delete. For numbers over 100, press the 100 button on the remote control first.

For example : To add channel 7, press 0 then 7 or use **CH/TRK ▼▲**.

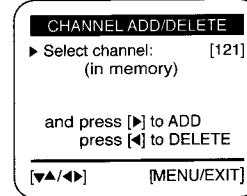
For example : To delete channel 121, press the 100 button, then 2 and 1 or use **▼▲**.



4 To ADD the selected channel: Press **►** button on the remote control.

To DELETE the selected channel: Press **◀** button on the remote control.

When you have finished, press the **MENU** button twice.



Note: • A deleted channel can be accessed with the number buttons, but the **CH/TRK ▼▲** buttons skip past it.
• To add the LINE input to channel memory, select LINE using the **LINE IN** button on the remote control, then press **►** button on the remote control.

VCR Setup

VCR Function Setup

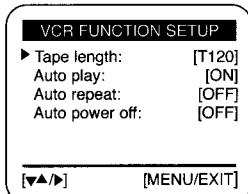
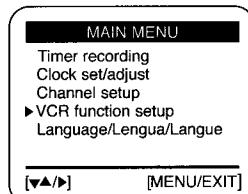
To make all of the VCR's features available, set the VCR functions before playing or recording a tape.

Tape length

1 Press the **MENU** button on the remote control. Press **▼** to select VCR Function Setup, then press **►**.

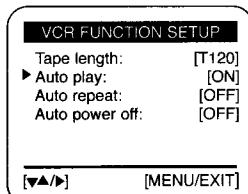
2 Press **►** to select the video cassette length. This information is usually printed on the tape box. The menu cycles through: T120, T160 or T180. Once the type of cassette is set, the VCR can display the amount of time remaining on the tape when you press the **DISPLAY** button (see page 17).

3 Press the **MENU** button when you are finished.



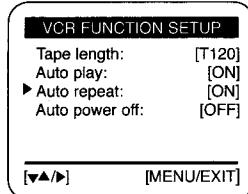
Auto play

Access the "VCR FUNCTION SETUP" menu as described above. Press **▼** to set the cursor to "Auto play", then press **►** to set ON or OFF. When "Auto play" is ON, the VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed (see page 18). Press the **MENU** button on the remote control when you are finished.



Auto repeat

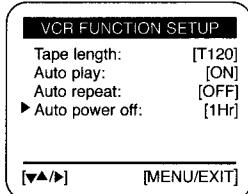
Access the "VCR FUNCTION SETUP" menu. Press the **▼** and **►** buttons to set "Auto repeat" ON or OFF. In the VCR FUNCTION SETUP "Auto repeat" sets the VCR to play a tape repeatedly [unless a tape control is activated (stop, fast forward or rewind)]. Press the **MENU** button on the remote control when you are finished.



Auto power off

Access the "VCR FUNCTION SETUP" menu. Press **▼** and **►** to set "Auto power off" to 1Hr or 2Hr. "Auto power off" sets the VCR to turn off automatically.

Note: VCR will shut off 1 or 2 hours after the last button is pressed.



VCR operation

Playing a cassette

- 1** Load a recorded cassette.
Power is automatically turned on.
- 2** Press the **PLAY** button to start playback.
When playback starts, the VCR automatically adjusts the tracking for clear pictures and sound.
- 3** To stop playback, press the **STOP** button.

Tape Controls

Play and Pause/Still



- Press the **PLAY** button on the remote control or on the front of the VCR to play a video. (If Auto play is selected and the video tape has no safety tab, it will begin playing automatically when you insert it in the VCR.)
- In play or slow motion mode, press the **STILL** button to stop the tape on a single still frame. Press the button again to resume normal viewing.

Fast Forward and Forward Search



- Press the **FF** button when the tape is stopped to fast-forward the cassette at top speed.
- Press the **FF** button once while a tape is playing for forward search. Press the **PLAY** button to stop search.
- Press and hold to increase speed by 7 times for tapes recorded at SP speed and 21 times for tapes recorded at SLP speed. Release button to play.

Rewind and Reverse Search



- Press the **REW** button when the tape is stopped to rewind the cassette at top speed.
- Press the **REW** button once while a tape is playing for rewind search. Press the **PLAY** button to stop search.
- Press and hold button while tape is playing to increase reverse speed by 7 times for tapes recorded at SP speed and 21 times for tapes recorded at SLP speed. Release button to play.

Frame Advance and Skip Search

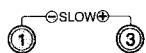


- Press the **F.ADV/SKIP** button repeatedly to advance a video tape frame by frame in still mode. Press the **PLAY** button to resume normal viewing.
- For Skip Search, press **F.ADV/SKIP** once to skip ahead 30 seconds. Press the **F.ADV/SKIP** button twice to skip ahead 60 seconds, three times to skip ahead 90 seconds and four times to skip ahead 120 seconds.

VCR Operation

Tape Control

Slow Motion



Press the **SLOW +** or **-** button while a cassette is playing for slow motion.

Press the **SLOW** buttons repeatedly to vary slow motion speed from 1/5 to 1/30 of normal playback. Press the **PLAY** button twice to resume normal viewing.

Replay



Press the **REPLAY** button when a video is playing at normal speed or in slow motion, and the VCR will rewind for about five seconds of material in SP mode or about fifteen seconds in SLP mode, then play back the section again.

Shuttle Buttons



Shuttle buttons on the remote control offer one-touch search speed playback.

Press 6 to advance or 4 to reverse playback in play mode. Playback speed is determined by how many times you press the shuttle button.



During still mode, press the **V-LOCK** buttons to reduce picture "jitter" (bouncing up and down). A small amount of "jitter" or some "streaks" are normal during still viewing.

Automatic Tracking (A.TRK)



Press the **A.TRK** button to automatically adjust cassette tracking.

Key Lock

If you do not want others to operate the VCR (for example if you have programmed a timer recording) you can set the VCR to lock out all button controls.

1 Press and hold the **TV/VCR** button on the remote control for 5 seconds. The VCR display will show "SAFE" when the feature is activated.



2 To resume normal mode, press and hold the **TV/VCR** button again for 5 seconds. "SAFE" will disappear and the VCR will operate normally.

VCR Operation

Variable Search System

SEARCH/EXIT

Press the **SEARCH/EXIT** button to display or exit the search screen.

When a program is recorded, the starting point is given an Index mark for easy location. However, the VHS Index Search System(VIIS) cannot recognize index marks made by old VCRs. If the VCR has trouble finding a mark, it is probably because the cassette was recorded on a VCR without VIIS.

If you want to index two programs in a row, set your VCR to stop. Then start recording each program.

Pause has no effect on index marks.

Scan and play:
press [◀] or [▶]
Go to [0:00:00]:
Press [▲]
End search:
Press [▼]

0:00:00 SP



1. Scan and play

Use scan and play when you don't know exactly where a program is located on a cassette tape.

1. Press ▶ for forward scan or ▲ for reverse scan.
2. The display will show "Scan and Play".
3. When an index mark is found, the VCR plays for about five seconds.
4. Press the **PLAY** button to view that program.

If you don't press **PLAY**, the VCR automatically searches for the next index, or until the end of tape is reached.

2. Go to 0:00:00 stop

Use this feature when you want to search for the 0:00:00 counter position on a cassette. Press the **CLEAR** button at the point on the tape where you want to set the counter to 0:00:00. Later, while a cassette is playing or stopped, press ▲ button. The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

3. End search

Use this feature when you want to search for a blank position to record a program on a cassette.

While a cassette is playing or stopped, press ▼ button. The VCR will rewind or fast forward, searching to a blank position, and then automatically stop at that position.

If the VCR reaches the end of the tape during end search, the tape will be ejected.

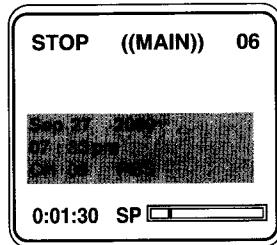
VCR Operation

Using the VCR

The display function gives you information about the status of your VCR.

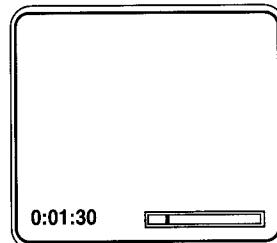
Location on screen Display information

Upper left corner	The VCR functions (Play, Stop or Record).
Upper center	Audio Status (VR8160 only)
Upper right corner	Channel VCR is tuned to.
Center	Record file (The date, time, channel and station ID).
Lower left corner	Amount of time that has elapsed since the counter was last reset.
Lower center corner	Tape speed (SP and SLP).
Lower right	Tape remaining graphic.

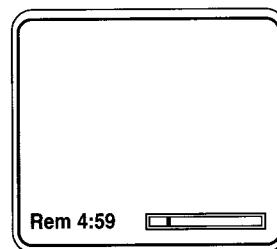


Accessing the DISPLAY screen

- 1 Press the **DISPLAY** button while the cassette is playing or recording. After approximately 3 seconds, the display automatically changes, then only the counter and graphic displays are shown.



- 2 Press the **DISPLAY** button to switch the counter mode to showing the time remaining on the tape.
Press the **DISPLAY** button again to remove display from the TV screen.



Note: In order for display information to be accurate, set up the tape length in the VCR Function Setup first (page 13).

Record file information

- The record file is displayed only when playing a tape recorded on this VCR.
- When a recorded tape is initially played in the VCR, the record file is displayed after 3 seconds.
- If the time and date aren't set, only the recorded channel number will be displayed.
- When the VCR mode changes, the display information will be delayed about 10 seconds.
- The station ID data is displayed only when available.

VCR Operation

Tracking

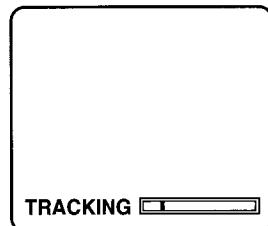
For the best picture quality when playing a cassette, the video heads must be aligned with the recorded track. This alignment is called tracking. When playing back a tape, your VCR automatically adjusts the tracking on a video tape, but occasionally a cassette may require some manual adjustment. Keep in mind that picture distortion often occurs at the beginning of a tape.

Automatic Tracking

- 1 Turn the TV on and insert a cassette into your VCR.
Press the **PLAY** button, if necessary.

- 2 If the VCR indicator on the front panel does not light, press the **TV/VCR** button. After a few seconds of auto tracking, you will hear sound from the video tape.

Note: Press the **A.TRK** button to automatically adjust cassette tracking again.



Manual Tracking

Press the **CH/TRK** buttons on the remote control up or down until the picture improves.

Note: Depending on the tape used, the noise on the screen may not be completely eliminated, depending on the tape used, especially when the tape was recorded on another VCR.

About Video Cassette Tapes

Tape speeds

The VCR can record at two tape speeds. The slower speed (SLP) allows the VCR to record more program material on a tape. Tapes recorded at standard speed (SP) provide a clearer picture. Press the **REC.SPEED** button on the remote control to set the tape speed. You can refer to the following table:

TAPE	SP (Standard Play)	SLP (Super Long Play)
T-120	2 hrs	6 hrs
T-160	2 hrs 40 minutes	8 hrs
T-180	3 hrs	9 hrs

Record protect tab

Before recording on any video cassette, make sure the record protect safety tab is in place. To prevent accidentally recording over a program, remove the record protect safety tab on the cassette case. To record on a tape with its tab removed, cover the hole with adhesive tape.



VCR Operation

Recording

Recording while you watch

- 1 Insert a video cassette with the record protect safety tab intact. Check the tape speed. If the VCR indicator on the front panel is not lit, press the **TV/VCR** button.
- 2 Select a channel to record by pressing **CH/TRK ▼▲** or the number buttons.
- 3 Press the **REC** button on the remote control or the front of the VCR. The REC indicator will light.
- 4 If you want to edit out unwanted material during recording, press the **P/STILL** button while recording and the VCR will pause. To resume recording, press the **P/STILL** button again.
- 5 To end recording, press the **STOP** button.



Separate Recording and Viewing

You can view a different program from the one you're recording if your VCR is connected to your antenna or cable system. When using a cable decoder box, use an A/B switch.

While recording on one channel, press the **TV/VCR** button on the remote control to select TV viewing. The VCR indicator light on the front display shuts off. Select the channel you want to watch with the TV's channel buttons.

- 1 Insert a video tape, check the tape speed, and select the channel you want to record, using the **CH/TRK ▼▲** or number buttons.

Record length 0:30 11

SP

- 2 Press the **REC** button on the remote control or the front of the VCR the number of times that corresponds to length of record time you desire (see chart below). The Record length time appears on the screen.

RECORD	Display	Record time
Press once	Record	Not timed.
Press 2 times	0:30	30mins
Press 3 times	1:00	1 hour
Press 4 times	1:30	1 hour + 30 mins
Press 5 times	2:00	2 hours
Press 6 times	3:00	3 hours
Press 7 times	4:00	4 hours
Press 8 times	Record	Not timed

- 3 The VCR will turn off automatically at the end of the recording time. To stop an OTR recording in progress, press the **POWER** button on the remote control or on the front of the VCR.

VCR Operation

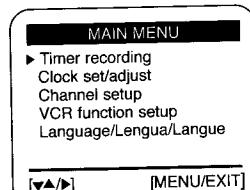
Timer Recording

The Timer feature allows you to set the VCR to automatically record up to eight different programs.

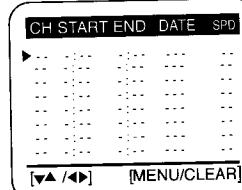
Setting a timer recording

Your VCR can record on a specific day, or every day, Monday through Friday. Daily and weekly programs remain in the timer until erased. A single program is erased after the program records.

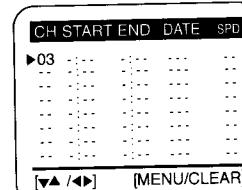
1 To display a timer recording list, press **MENU** and **▶** on the remote control.



2 Press **▶** and **▲▼** to set the channel. Press **▶** to move to the next setting.

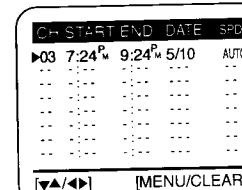


3 Repeat step 2 to set start time, end time, date and record speed. Date can be set for one time, daily or weekly recording. See below.



4 Press the **MENU** button to complete programming the timer recording. Stop the VCR or turn the power off. The timer indicator comes on the VCR. The VCR will automatically turn on and begin recording at the time you have set. To stop a timer recording, press the VCR power button.

Note: When using a cable decoder box or DSS®, make sure the decoder box is on and set to the correct channel for timer recording.



Auto Speed Select

If you are not sure the tape is long enough for timer program recording in the SP tape speed, set the recording tape speed to "AUTO". Recording starts in the SP tape speed. If the tape length is not long enough, the tape speed automatically changes from SP to SLP.

Daily/Weekly Date Programming

Weekly [SUN'S~SAT'S]: You can record TV programs on the same channel at the same time every week.

Daily [MO ~ FR]: You can record TV programs on the same channel at the same time every day Monday through Friday.

VCR Operation

Changing or canceling a timer recording

TO CHANGE THE TIMER PROGRAM, repeat steps 1 to 4.

TO CANCEL THE TIMER PROGRAM, select the program you want to cancel in the timer recording list.

Press the **CLEAR** button twice on the remote or **EJECT** button on the VCR to clear the Timer Program settings.

The contents are then cleared.

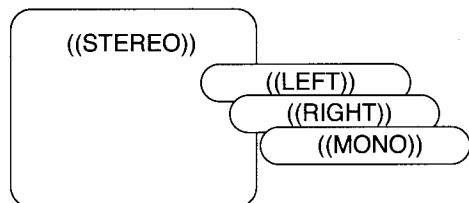


The VCR can record a program in stereo. It can also be set to record the Secondary Audio Program (SAP) of any broadcast with second language audio. The VCR records the same audio on both the Hi-Fi and linear tracks on the tape.

Stereo Programs

1 Press **AUDIO** on the remote to select STEREO.
You can also select LEFT, RIGHT or MONO.

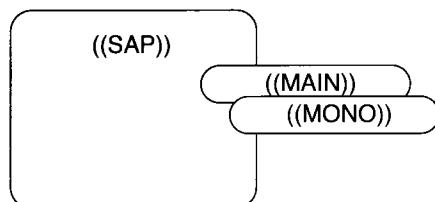
Note: When the stereo sound is poor, press the **AUDIO** button to select MONO for sound without noise.



To Record SAP Programs

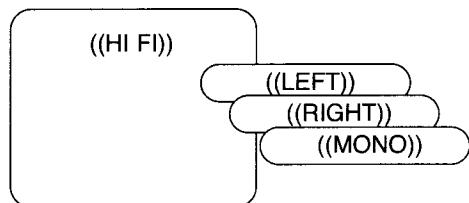
2 To select SAP, press the **AUDIO** button on the remote control until "SAP" is displayed on screen. "SAP" will be displayed on the TV screen when a SAP broadcast is received. Press the **REC** button for SAP recording.

*When "MAIN" is displayed, stereo is selected.



Selecting Playback Sound with Hi-Fi Tapes

3 During playback, press **AUDIO** to set the Audio to HI-FI, LEFT, RIGHT or to MONO. When playing a tape that is not Hi-Fi, the audio button will have no effect.



VCR Operation

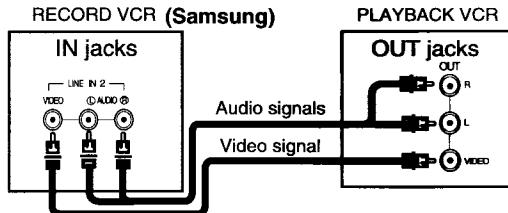
Copying or Dubbing a Video

To make a copy, or "dub" of a video, you need two VCRs and two RCA-type cables.

Warning: One Federal Court has held that unauthorized recording of copyrighted TV programs may be an infringement of copyright laws.

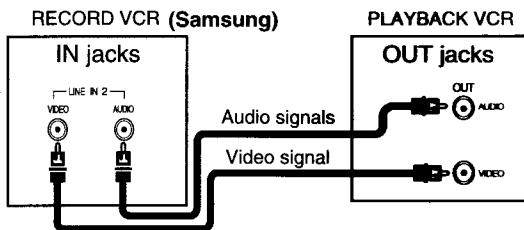
VR8160

1 Attach one end of the video cable to the Video OUT jack of the playback VCR and the other end to the Video IN jack of the record VCR.



VR5160

2 Attach one end of the Audio cable to the Audio OUT jacks on the playback VCR, and the other end to the Audio IN jacks on the record VCR.



3 Set your Samsung VCR to record, and the other VCR to play back. Press the **LINE IN** button to select the jacks on the front of the VCR.

LINE 2

4 Press the **PLAY** button on the playback VCR, and record on the recording VCR.

Note: Rental tapes with Copyguard protection cannot be copied. Before you copy a rental tape, check first.

Care and Maintenance

VCR

- Unplug your VCR from the wall outlet before cleaning.
- Use a dry cloth when dusting your VCR.
- Proper ventilation ensures that overheating will not damage electronic circuits. Don't block ventilation holes.
- Take care of your remote control. Keep the remote with your VCR, where it is unlikely to be lost or damaged.
- Keep liquids away from your VCR, including beverages and cleaning liquids. Spilling any liquid on the VCR can damage the electronics, resulting in an electric shock or fire.
- Do not use liquid or aerosol cleaners that can accidentally get into the VCR, causing damage or creating a fire hazard.
- Do not allow any object to be pushed into the cabinet slots. This includes coins, dusters, cleaning cloths, papers and other objects. Any such objects can connect with a voltage point inside the VCR, causing dangerous shocks, or may short out parts and cause a fire or an electric shock.

Video Head Cleaning

If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. If necessary, purchase a head-cleaning cassette. If the picture quality does not improve after cleaning, call 1-800-SAMSUNG for service.

When cleaning the video heads, read all the instructions provided with the head-cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

Video Cassettes

- High quality, brand-name cassettes often last longer and provide a better picture.
- Rewind your cassettes all the way so that the tape is not at a midpoint. This can extend the life of a cassette tape.
- Do not touch or splice the tape. This can damage the tape, and playing such a tape can damage your VCR. Do not take apart any cassette you plan to use again.
- Do not put any object inside a video cassette case and do not clean inside the cassette. This can permanently damage the tape, making it unusable.

Warranty Information

To ensure proper warranty, please return your registration card within two weeks. Record the model number and serial number from the back of the VCR and the date of purchase in the space on the right. Keep your purchase receipt with this manual for easy reference.

Model Number _____

Serial Number _____

Date Purchased _____

Dealer _____

Troubleshooting

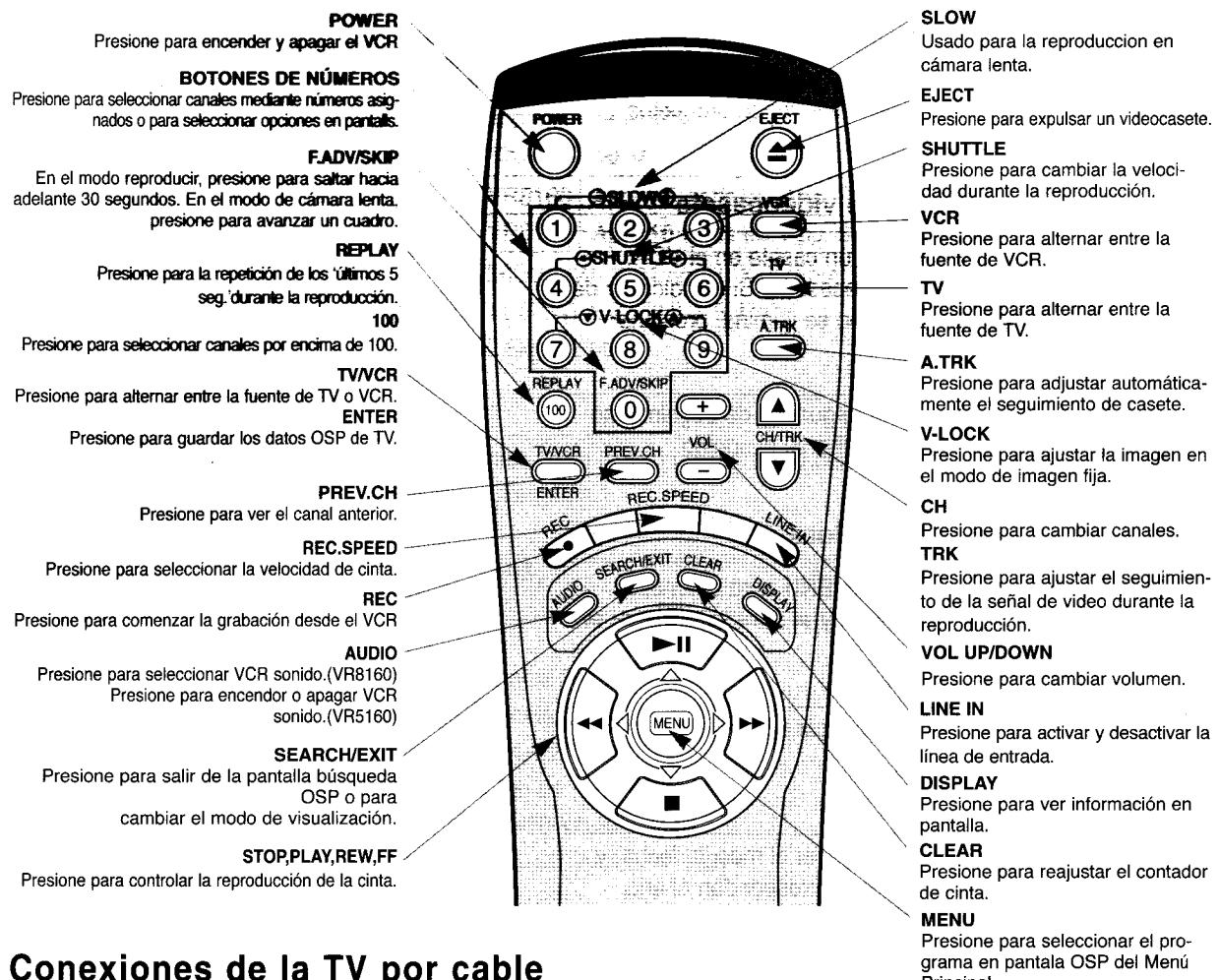
Before calling for service, check this list of possible problems and solutions to see if the problem can be solved with a simple adjustment.

Problem	Possible Solution
No power	<ul style="list-style-type: none">• Make sure the VCR is ON and plugged into an operating wall outlet.
A cassette cannot be inserted.	<ul style="list-style-type: none">• Press EJECT to see if a cassette is already in the VCR.• Make sure the cassette is window-side up, with the arrow facing toward the VCR.• Make sure the VCR is not in Key Lock mode.
A cassette cannot be ejected.	<ul style="list-style-type: none">• Check if the VCR is in stand-by mode for timer recording.
A timer recording did not record.	<ul style="list-style-type: none">• Check that your Timer Record settings are accurate.• Check if there was a power failure or broadcast scheduling change.
No picture, or a distorted picture on playback	<ul style="list-style-type: none">• Check if the cassette recorded any picture.• Press TRACKING to adjust the playback picture.• Press the TV/VCR button for VCR Viewing.• Set the TV channel to match the VCR Output channel.• Make sure the TV is working properly.
No TV broadcast picture	<ul style="list-style-type: none">• Press the TV/VCR button for TV Viewing.• Check all cabling between VCR Antenna/Cable and TV.• Make sure the TV is on.
Streaks (noise) on a recorded program	<ul style="list-style-type: none">• Press TRACKING to adjust the picture.• Check all connections.• View another cassette. If the problem persists, clean the video heads.• Copy protection schemes can distort the picture.
Streaks or jitter with the VCR in P/STILL mode	<ul style="list-style-type: none">• Press the V-LOCK button to adjust the picture.
The VCR will not PLAY, RECORD, REWIND or FAST FORWARD	<ul style="list-style-type: none">• Check if the VCR is in record pause mode.• Check if the cassette has been rewound.
No function	<ul style="list-style-type: none">• Check if the VCR is in Key Lock mode.

Guide de référence rapide

Control remoto universal

Para controlar los botones VCR, presione primero el botón.



Conexiones de la TV por cable

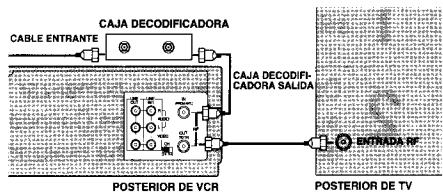
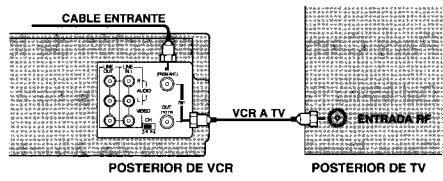
Las compañías locales de TV por cable ofrecen distintos servicios y pueden proporcionar todo tipo de información relativa a las conexiones de cable/VCR.

Conexión básica

(Sin caja decodificadora) Siga este diagrama para conectar el VCR a un sistema básico de TV por cable con un cable coaxial de 75 ohms

Conexión para ver los canales pagos

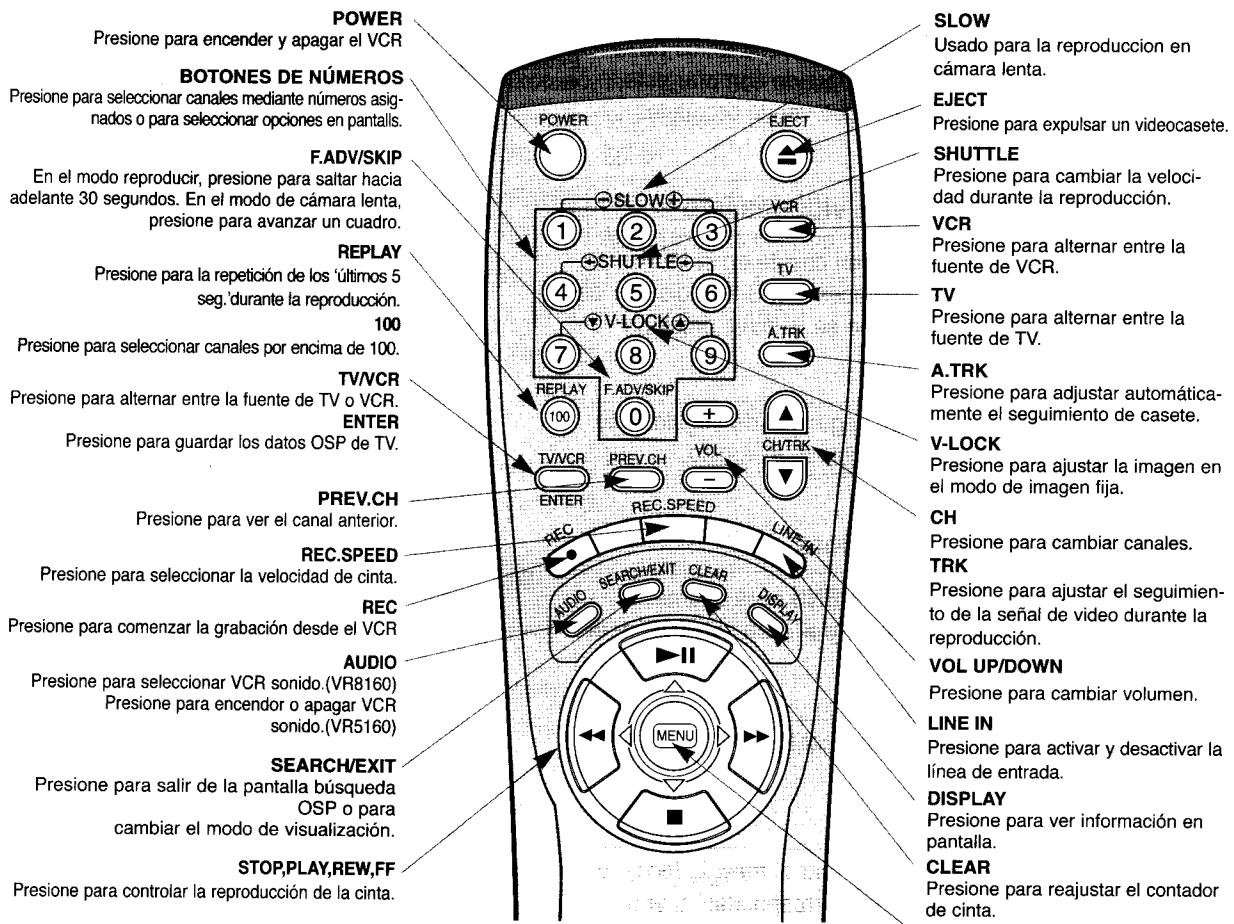
(Con caja decodificadora) Algunas compañías de TV por cable proporcionan una caja decodificadora para descifrar o decodificar los canales pagos y/o los canales básicos. Siga el diagrama para conectar el VCR a una caja decodificadora. Coloque el interruptor de Canal de Salida ubicado en la parte posterior del VCR en 3 ó 4 para igualar el canal seleccionado en el televisor.



Guide de référence rapide

Control remoto universal

Para controlar los botones VCR, presione primero el botón.



Conexiones de la TV por cable

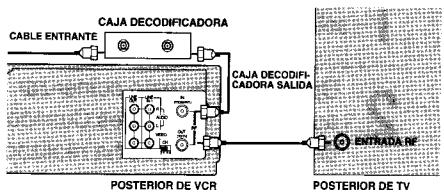
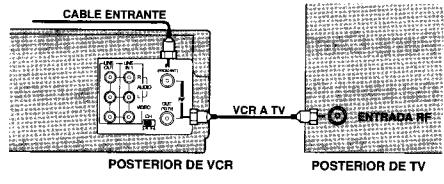
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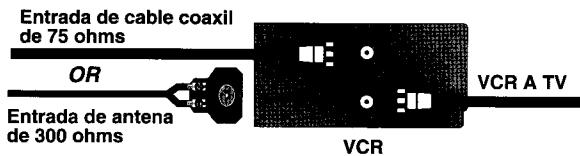
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Guide de référence rapide

Conexión de la antena

El VCR cuenta con un conversor integrado para recibir la mayoría de las señales VHF/UHF. Si el cable de la antena exterior es un cable plano de alimentación de 300 ohms, un transformador de acople se debe conectar antes de la terminal ed entrada del VCR. Usted puede comprar este transformador en cualquier tienda que venda productos electrónicos.



Reproducción de cintas de videocasete

- 1** Encienda el TV e inserte un casete en el VCR. Presione **PLAY**, si es necesario. Si el indicador de VCR en el panel frontal no se ilumina, presione **TV/VCR**.
- 2** Después de unos pocos segundos de seguimiento automático, debería escucharse el sonido.

Para Realizar Ajuste de la Hora

- 1** Prenda el VCR y oprima **MENU** para obtener el Menú Principal. Oprima **▼** y **►** para seleccionar el Ajuste de la hora.
- 2** Oprima **▲/▼** y **►** para indicar la hora del día.
- 3** Oprima **▲/▼** y **►** para indicar el mes, la fecha, y dos últimos números que correspondan al año.
- 4** Oprima **MENU** para concluir.

Para Cambiar la selección de Idiomas

Del Menú Principal, oprima **▼** y **►** para seleccionar inglés, español o francés.

Para Realizar Entrada de Ajuste de Canales

- 1** Oprima **MENU** Tras esto, oprima **▼** y **►** para seleccionar el Ajuste de Canales.
- 2** Oprima **▼** y **►** para comenzar la programación automática de canales. Cuando el número del canal deje de cambiar, se ha realizado la programación.

Specifications

Antenna input/output terminals:	UHF/VHF: 75 Ω F type connector
Signal system:	Standard NTSC
Recording/Playback system:	Recording: VHS format(SP, SLP) Playback: VHS format(SP, LP, SLP)* Video cassette with VHS mark
Record/Play Time:	6 hours with T-120 in SLP mode
FF/Rewind Time:	approximately 60 seconds
Power Source:	120V AC, 60Hz
Power Output:	VR8160 App. 18 watts on; App. 3.8 watts off VR5160 App. 16 watts on; App. 3.8 watts off
Dimensions:	360mm(W) X 94mm(H) X 238mm(D) 14.2"(W) X 3.7"(H) X 9.4"(D)
Weight:	2.8kg/6.2lbs

Your VCR can receive 68 broadcast TV channels or up to 125 unscrambled cable channels. Check your local cable company for complete compatibility requirements.

Type	Number of Channels	Channel List
On Air	12	VHF (Channels 2~13)
	56	UHF (Channels 14~69)
CATV	113	Channels 14~22 (A~I) Channels 23~94 (J~W+58)and 100~125(W+59-W+84) Channels 95~97 (A~5,A~4,A~3)* Channels 98~99(A~2,A~1)* Channel 01 (5A)*
Total	181	

★: These channels are not available in Canada.



ELECTRONICS

SAMSUNG VIDEO CASSETTE RECORDER LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

Ninety (90) Days Labor and One (1) Year Parts

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal or reinstallation; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

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To obtain warranty service, please contact SAMSUNG at:

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